## IN THE CLAIMS:

Please cancel claims 4 and 5, inclusive. Please note that these claims 4 and 5 have now been included within the amended claim 1.

Please amend claims 1, 6, 7-11, and 14-20, inclusive. Claims 2, 3, 12 and 13, remain "as-is".

Examiner had indicated that claims 6-9 would be allowable (and also claim 5 would be allowable) if re-written to include limitations of the base. This has now been done.

- 1. (Currently Amended) In a computer system including at least two server nodes, each of which can execute clustered server software, a method for providing data to restore clustering, said method comprising the steps of:
  - (a) comparing a current configuration data to a previous configuration data in an initialization phase[[;]] which includes the steps of:
    - (a1) gathering previously stored data for a first one of said server nodes, and setting a flag to start with an installation phase if said previously stored data does not exist;
    - (a2) gathering current state data for said first server node;
    - (a3) comparing said current state data to said previously stored data, and setting said flag to start with said installation phase if discrepancies exist;
    - (a4) gathering companion node data for said first server node;
    - (a5) determining if said flag has been seen to start with an installation form, said installation form to permit a user to specify data to use in installing clustering software, and if so;
    - (a6) displaying said installation form;

- (b) comparing said current configuration data to a standard configuration data in an installation phase[[;]] which includes the steps of:
  - (b1) allowing a user to change said current state data;
  - (b2) comparing said current state data with established guidelines for clustering and reporting discrepancies to said user;
  - (b3) determining if a second one of said server nodes is known by a first server node, and if so;
  - (b4) specifying said second server node as a companion node;
  - (b5) comparing configuration data of first server node with configuration data of said second server node;
  - (b6) allowing said user to make corrections to said configuration data of first server node and said configuration data of second server node if discrepancies exist;
  - (b7) saving said configuration data of first server node and said configuration data of second server node;
  - (b8) displaying a diagnostics form;

- (c) comparing a set of operations to a standard clustering functionality in a diagnostics phase;
- (d) displaying a set of results in a results phase.

- 2. (Original) The method as in Claim 1 wherein said data to restore clustering is provided when clustering services fail.
- 3. (Original) The method as in Claim 1 wherein said installation phase further includes the step of installing clustered software on said computer system.

- 4. (Cancelled).
- 5. (Cancelled).

- 6. (Currently Amended) The method as in Claim 1 wherein said diagnostics phase includes the steps of:
  - (a) allowing <u>a</u> [[said]] user to specify a companion node;
  - (b) allowing <u>a</u> [[said]] user to specify a diagnostics test level;
  - (c) allowing <u>a</u> [[said]] user to specify a set of test categories;
  - (d) allowing <u>a</u> [[said]] user to specify a method of interaction between said computer system and said user;
  - (e) sequentially running a set of tests;
  - (f) running a set of tests for environmental rules if selected;
  - (g) running a set of tests for cluster communication if selected;
  - (h) running a set of tests for shared resources if selected;
  - (i) displaying a results form.

- 7. (Currently Amended) The method as in Claim 6 wherein said step

  (f) of running said set of tests for environmental rules includes
  the steps of:
  - (f1) [[(a)]] testing [[a]] saved configuration
    data between [[said]] a first server node and said
    configuration data of said first server node;
  - (f2) [[(b)]] testing [[a]] saved configuration
    data between said first server node and said
    configuration data of a second server\_Node. [[;]]

- 8. (Currently Amended) The method as in Claim 6 wherein said step (g) of running said set of tests for cluster communication includes the steps of:
  - (g1) [[(a)]] testing an ability for a [[said]]
    first server node to communicate with a [[said]]
    second server node via all network connections
    marked as private;
  - (g2) [[(b)]] testing an ability for a [[said]] first server node to communicate with a [[said]] second server node via all network connections marked as public;
  - (g3) [[(c)]] testing an ability for a [[said]] first server node to communicate with a [[said]] second server node via all network connections marked as both private and public;

- (g4) [[(d)]] testing an ability for a [[said]] first server node to communicate with a controller node;
- (g5) [[(e)]] testing an ability for a [[said]] first server node to execute commands on said second server node. [[;]]
- 9. (Currently Amended) The method as in Claim 6 wherein said step

  (h) of running said set of tests for shared resources includes the steps of:
  - (h1) [[(a)]] testing an ability for a [[said]]
    first server node to utilize a shared storage
    device for arbitrating operation of said computer
    system;
  - (h2) [[(b)]] testing an ability to reset and
    reserve a SCSI bus for said shared storage device.
    [[;]]
- 10. (Currently Amended) The method as in Claim 1 wherein said results phase includes the steps of:
  - (d1) [[(a)]] allowing a [[said]] user to view all diagnostics;
  - (d2) [[(b)]] allowing <u>a</u> [[said]] user to view diagnostics producing errors;
  - (d3) [[(c)]] allowing <u>a</u> [[said]] user to view diagnostics producing errors or warnings;

- (d4) [[(d)]] allowing <u>a</u> [[said]] user to traverse a collection of diagnostics;
- (d5) [[(e)]] allowing <u>a</u> [[said]] user to save said collection of diagnostics to a log file.

- 11. (Currently Amended) <u>Computer Readable Media</u> A storage medium encoded with machine-readable computer program code utilizing a method for providing data to restore clustering <u>between a first server node and a second server node</u>, wherein, when a computer <u>system</u> executes the computer program code, the computer performs the steps of:
  - (a) comparing a current configuration data to [[a]] previous configuration data in an initialization phase;
  - (b) comparing said current configuration data to a standard configuration data in an installation phase;
  - (c) comparing a set of operations to a standard clustering functionality in a diagnostics phase;
  - (d) displaying a set of results in a results phase.

- 12. (Original) The method as in Claim 11 wherein said data to restore clustering is provided when clustering services fail.
- 13. (Original) The method as in Claim 11 wherein said installation phase further includes the step of installing clustered software on said computer system.
- 14. (Currently Amended) The method as in Claim 11 wherein said initialization phase includes the steps of:
  - (a) gathering previously stored data for a first one of said server nodes, and setting a flag to start with said installation phase if said previously stored data does not exist;
  - (b) gathering current state data for said first server node[[;]] to specify the state of clustering;
  - (c) comparing said current state data to said previously stored data, and setting said flag to start with said installation phase if discrepancies exist;
  - (d) gathering companion node data for [[said]] a first server node;
  - (e) determining if said flag has been [[said]] set to start with said installation form, which will permit a user to specify data to use in installing clustering software, and if so;
  - (f) displaying an installation form.

- 15. (Currently Amended) The method as in Claim 11 wherein said installation phase includes the steps of:
  - (a) allowing a user to <u>access and</u> change [[said]] current state data;
  - (b) comparing said current state data with established guidelines for clustering and reporting discrepancies to said user:
  - (c) determining if a second one of said server nodes is known by said first server node, and if so;
  - (d) specifying said second server node as a companion node;
  - (e) comparing configuration data of first server node with configuration data of said second server node;
  - (f) allowing <u>a</u> [[said]] user to make corrections to said configuration data of first server node and said configuration data of second server node if discrepancies exist;
  - (g) saving said configuration data of <u>said</u> first server node and said configuration data of <u>said</u> second server node;
  - (h) displaying a diagnostics form.

- 16. (Currently Amended) The method as in Claim 11 wherein said diagnostics phase includes the steps of:
  - (a) allowing <u>a</u> [[said]] user to specify a companion node;
  - (b) allowing a [[said]] user to specify a diagnostics test level;
  - (c) allowing <u>a</u> [[said]] user to specify a set of test categories;
  - (d) allowing <u>a</u> [[said]] user to specify a method of interaction between said computer system and <u>a</u> [[said]] user;
  - (e) sequentially running a set of tests;
  - (f) running a set of tests for environmental rules if selected;
  - (g) running a set of tests for cluster communication if selected;
  - (h) running a set of tests for shared resources if selected;
  - (i) displaying a results form.

- 17. (Currently Amended) The method as in Claim 16 wherein said step (f) of running said set of tests for environmental rules includes the steps of:
  - (f1) [[(a)]] testing a saved configuration between
    said first server node and said configuration data
    of said first server node;
  - (f2) [[(b)]] testing a saved configuration between said first server node and said configuration data of said second server node. [[;]]
- 18. (Currently Amended) The method as in Claim 16 wherein said step (g) of running said set of tests for cluster communication includes the steps of:
  - (g1) [[(a)]] testing an ability for said first
    server node to communicate with said second server
    node via all network connections marked as
    private;
  - (g2) [[(b)]] testing an ability for said first server node to communicate with said second server node via all network connections marked as public;
  - (g3) [[(c)]] testing an ability for said first server node to communicate with said second server node via all network connections marked as both private and public;

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- (g4) [[(d)]] testing an ability for said first server node to communicate with a controller node;

  (g5) [[(e)]] testing an ability for said first server node to execute commands on said second server node. [[;]]
- 19. (Currently Amended) The method as in Claim 16 wherein said step (h) of running said set of tests for shared resources includes the steps of:
  - (h1) [[(a)]] testing for an ability for said first
    server node to utilize a shared storage device for
    arbitrating operation of said computer system;
  - (h2) [[(b)]] testing for an ability to reset and
    reserve a SCSI bus for said shared storage device.
    [[;]]
- 20. (Currently Amended) The method as in Claim 11 wherein step (d) of displaying said results phase includes the steps of:
  - (d1) [[(a)]] allowing [[said]] user to view all
    diagnostics;
  - (d2) [[(b)]] allowing a [[said]] user to view
    diagnostics producing errors;
  - (d3) [[(c)]] allowing a [[said]] user to view
    diagnostics producing errors or warnings;
  - (d4) [[(d)]] allowing <u>a</u> [[said]] user to traverse a collection of diagnostics;
  - (d5) [[(e)]] allowing <u>a</u> [[said]] user to save said collection of diagnostics to a log file.